

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

TI-22782B

09/757073

Continuation of Serial No.

09/115,854

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Douglas M. Smith, et al.

FILING DATE

1/08/01

GROUP

1762

To Be Determined

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
ECC	AA	5,746,992	5/05/98	Yoldas, et al.	423	338	10/05/95
ECC	AB	5,409,683	4/25/95	Tillotson, et al.	423	338	7/07/94
ECC	AC	5,736,425	4/07/98	Smith, et al.	438	778	11/14/96
	AD						
	AE						
	AF						
	AG						
	AH						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AI							
	AJ							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AK	
	AL	
	AM	
	AN	
	AO	
	AP	
	AQ	

BEST AVAILABLE COPY

EXAMINER

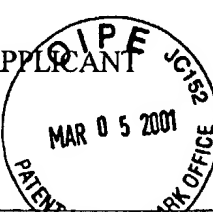
ERMA CAMERON

DATE CONSIDERED

4/14/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. TI-22782B		SERIAL NO. 09/757,073	
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Smith et al.		RECEIVED MAR 06 2001 FILING DATE 1762	
					FILING DATE 01/08/2001			
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
ECC	AA	3,652,216	3/28/72	Krekeler, et al.	23	182		
	AB	3,689,637	9/5/72	Pader	424	52		
	AC	3,860,431	1/14/75	Payne et al.	252	309		
	AD	3,997,501	12/14/76	McLeod	260	37SB		
	AE	4,104,363	8/1/78	Vozka, et al.	423	338		
	AF	4,169,926	10/2/79	McDaniel	526	100		
	AG	4,230,773	10/28/80	Bakos	428	447		
	AH	4,230,803	10/28/80	Weidenbach et al.	435	176		
	AI	4,311,738	1/19/82	Chi	427	387		
	AJ	4,548,646	10/22/85	Mosser, et al.	106	14.12		
	AK	4,584,365	04/22/86	Jada et al.	528	271		
	AL	4,608,316	08/26/86	Toda et al.	428	446		
	AM	4,652,467	03/24/87	Brinker et al.	427	246		
	AN	4,713,233	12/15/87	Marsh et al.	423	608		
	AO	4,851,150	07/25/89	Hench et al.	252	315.6		
	AP	4,943,542	7/24/90	Hayashi et al.	501	12		
	AQ	4,954,327	09/04/90	Blount	423	338		
	AR	4,987,101	01/22/91	Kaanta et al.	437	228		
	AS	5,076,980	12/31/91	Nogues et al.	264	65		
	AT	5,091,009	2/25/92	Nogami et al.	106	287.23		
AU	5,097,317	03/17/92	Fujimoto et al.	357	72			
AV	5,103,288	04/07/92	Sakamoto et al.	357	71			
ECC	AW	5,139,980	8/18/92	Nakahara et al.	501	12		
	AX							
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
						YES NO		
	AY							
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AZ							
EXAMINER				DATE CONSIDERED				
ERMA CAMERON				4/14/04				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. TI-22782B		SERIAL NO. 09/757,073	
LIST OF DOCUMENTS CITED BY APPLICANT <small>(Use several sheets if necessary)</small>								
					APPLICANT Smith <i>et al.</i>		GROUP 1762	
					FILING DATE 01/08/2001		RECEIVED MAR 06 2001 TC 1700	
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
ECC	BA	5,155,576	10/13/92	Mizushima	357			
	BB	5,207,814	05/04/93	Cogliati <i>et al.</i>	65	18.3		
	BC	5,226,930	7/13/93	Sasaki	51	308		
	BD	5,242,647	09/07/93	Poco	264	225		
	BE	5,270,027	12/14/83	Balducci, <i>et al.</i>	423	338		
	BF	5,275,796	01/04/94	Tillotson <i>et al.</i>	423	338		
	BG	5,294,480	03/15/94	Mielke <i>et al.</i>	428	240		
	BH	5,302,548	04/12/94	Watanabe <i>et al.</i>	437	187		
	BI	5,320,983	06/14/94	Ouellet	437	231		
	BJ	5,352,637	10/4/94	Fabry, <i>et al.</i>	437	238		
	BK	5,368,887	11/29/94	Hoshino <i>et al.</i>	427	226		
	BL	5,391,364	02/21/95	Cogliati	423	335		
	BM	5,393,712	02/28/95	Rostoker <i>et al.</i>	437	238		
	BN	5,405,805	04/11/95	Homma	437	195		
	BO	5,409,683	04/25/95	Tillotson <i>et al.</i>	423	338		
	BP	5,457,073	10/10/95	Ouellet	437	231		
	BQ	5,489,553	02/06/96	Chen	437	195	05/25/95	
	BR	5,494,863	2/27/96	Mathur	501	12	12/13/94	
	BS	5,496,527	03/05/96	Yokogawa <i>et al.</i>	423	338	04/28/94	
	BT	5,522,976	6/4/96	Campet, <i>et al.</i>	204	298.13	6/94	
ECC	BU	5,698,483	12/16/97	Ong <i>et al.</i>	501	12	3/17/95	
	BV	5,746,992	05/05/98	Yoldas <i>et al.</i>	423	338	10/5/95	
	BW							
	BX							
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
						YES	NO	
	BY							
OTHER DOCUMENTS <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>								
	BZ							
EXAMINER ERMA CAMERON				DATE CONSIDERED 4/14/04				
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. TI-22782B		SERIAL NO. 09/757,073	
LIST OF DOCUMENTS CITED BY APPLICANT <small>(Use several sheets if necessary)</small>							<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> RECEIVED MAR 06 2001 1762 </div>	
APPLICANT Smith								
FILING DATE 01/08/2001								
U.S. PATENT DOCUMENTS								
*EXAMINER • INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
ECC	CA	5,470,802	11/28/95	Gnade <i>et al.</i>	437	238	05/20/94	
	CB	5,472,913	12/05/95	Havemann <i>et al.</i>	437	195	08/05/94	
	CC	5,488,015	01/30/96	Havemann <i>et al.</i>	437	195	05/20/94	
	CD	5,494,858	02/27/96	Gnade <i>et al.</i>	437	231	06/07/94	
	CE	5,504,042	04/02/96	Cho <i>et al.</i>	437	247	06/23/94	
	CF	5,519,250	05/21/96	Numata	257	632	06/07/95	
	CG	5,523,615	06/04/96	Cho <i>et al.</i>	257	632	06/07/95	
	CH	5,525,857	06/11/96	Gnade <i>et al.</i>	313	309	08/19/94	
	CI	5,536,965	07/16/96	Beratan <i>et al.</i>	257	444	06/07/95	
	CJ	5,548,159	08/20/96	Jeng	257	634	05/23/95	
	CK	5,561,318	10/01/96	Gnade <i>et al.</i>	257	638	06/07/95	
	CL	5,656,848	08/12/97	Beratan <i>et al.</i>	257	446	06/07/95	
	CM	5,661,344	08/26/97	Havemann <i>et al.</i>	257	758	06/07/95	
	CN	5,723,368	3/3/98	Cho <i>et al.</i>	437	763	6/7/95	
	CO	5,736,425	04/07/98	Smith <i>et al.</i>	438	778	11/14/96	
	CP	5,747,880	5/5/98	Havemann <i>et al.</i>	257	759	11/18/96	
	CQ	5,750,415	5/12/98	Gnade <i>et al.</i>	427	195	5/27/94	
	CR	5,753,305	05/19/98	Smith <i>et al.</i>	427	335	11/14/96	
	CS	5,789,819	08/04/98	Gnade <i>et al.</i>	—	—	06/07/95	
	CT	5,804,508	09/08/98	Gnade <i>et al.</i>	—	—	10/23/96	
	CU	5,807,607	09/15/98	Smith <i>et al.</i>	—	—	11/14/96	
	CV	5,847,443	12/08/98	Cho <i>et al.</i>	—	—	11/14/96	
	CW	5,858,871	01/12/99	Jeng	—	—	06/13/96	
ECC	CX	5,955,140	09/21/99	Smith <i>et al.</i>	—	—	11/14/96	
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
						YES	NO	
	CY							
OTHER DOCUMENTS <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>								
EXAMINER ERMA CAMERON				DATE CONSIDERED 4/14/04				
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. TI-22782B		SERIAL NO. 89/757,973 RECEIVED MAR 06 2001 TC 1782	
LIST OF DOCUMENTS CITED BY APPLICANT <small>(Use several sheets if necessary)</small>					APPLICANT Smith <i>et al.</i>		FILING DATE 01/08/2001	
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
ECC	DA	6,037,277	03/14/00	Maskara <i>et al.</i>	—	—	11/14/96	
ECC	DB	6,063,714	5/16/00	Smith <i>et al.</i>	—	—	11/14/96	
ECC	DC	6,130,152	10/10/00	Smith <i>et al.</i>	—	—	11/14/96	
ECC	DD	6,159,295	12/12/00	Maskara <i>et al.</i>	—	—	04/22/99	
ECC	DE	6,171,645	01/09/01	Smith <i>et al.</i>	—	—	07/15/98	
	DF							
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
ECC	DG	0 382 310 A2	08/16/90	Europe	—	—	n/a	
ECC	DH	0 454 239 A2	10/30/91	Europe	—	—	n/a	
ECC	DI	JP-A-54 109765	08/28/79	Japan	—	—	of abstract	
ECC	DJ	JP-A-06 293971	10/21/94	Japan	—	—	of abstract	
ECC	DK	WO 92/03378	03/05/92	PCT	—	—	n/a	
OTHER DOCUMENTS <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>								
ECC	DL	Tillotson <i>et al.</i> , "Transparent ultralow-density silica aerogels prepared by a two-step sol-gel process", JOURNAL OF NON-CRYSTALLINE SOLIDS, 145 (1992), pp. 44-50.						
ECC	DM	D. Basmadjian <i>et al.</i> , "The Control of the Pore Volume and Pore Size Distribution in Alumina and Silica Gels by the Addition of Water Soluble Organic Polymers", December 1962, JOURNAL OF CATALYSIS, Volume 1, Number 6, pp. 547 - 563.						
ECC	DN	Fricke <i>et al.</i> , "Aerogels", May 28, 1992, J. AM. CERAM. SOC., 75(8), pp. 2027-2036.						
ECC	DO	Einarsrud <i>et al.</i> , CHEM. PROCESS. ADV. MATL., (1992) pp. 355 - 361. (abstract only)						
ECC	DP	Haereid, Siv <i>et al.</i> , "Mechanical Strengthening of TMOS-Based Alkogels by Aging in Silane Solutions", 1994, JOURNAL OF SOL-GEL SCIENCE AND TECH., Vol. 3, pp. 199-204.						
ECC	DQ	Haereid, Siv, "Preparation and Characterization of Transparent, Monolithic Silica Xerogels with Low Density", January 1993, Norwegian Institute of Technology, Dept. Of Inorganic Chemistry.						
ECC	DR	Hrubesh <i>et al.</i> , "Dielectric Properties of Aerogels", J. MATERIALS RESEARCH, Vol. 8, No. 7, July 1993, pp. 1736-1741.						
ECC	DS	V. S. Klimenko, L. A. Kulik, and V. V. Vashchinskaya, "Dependence of the Composition and Structure of Silicic Acid Xerogels on the Nature of the Solvent", 1986, UKRAINSKII KHIMICHESKII ZHURNAL, Vol. 52, No. 12, pp. 1247 - 1251.						
ECC	DT	Smith <i>et al.</i> , "Preparation of low-density xerogels at ambient pressure", JOURNAL OF NON-CRYSTALLINE SOLIDS, 186 (1995) pp. 104 - 112.						
ECC	DU	Yokogawa, H., Yokoyama, M., "Hydrophobic Silica Aerogels", JOURNAL OF NON-CRYSTALLINE SOLIDS, 186 (1995) pp. 23-29.						
	DV							
EXAMINER ERMA CAMERON				DATE CONSIDERED 4/14/04				
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. TI-22782B		SERIAL NO. 09/757,073 RECEIVED	
LIST OF DOCUMENTS FILED BY APPLICANT <i>(Use several sheets if necessary)</i> <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U.S. PATENT & TRADEMARK OFFICE</div> <div style="text-align: center;">MAR 0 5 2001</div> </div>					APPLICANT Smith <i>et al.</i>		FILING DATE 01/08/2001 GROUP MAR 0 6 2001 1762 TC 1700	
					FILING DATE 01/08/2001			
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)		
	EA							
	EB							
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
						YES NO		
	EC							
	ED							
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
ECC	EE	Poco <i>et al.</i> , "A rapid Supercritical Extraction Process for the Production of Silica Aerogels", MAT. RES. SOC. SYMP. PROC. Vol. 431 (1996) pp. 297-302, Materials Research Society.						
ECC	EF	Prakash <i>et al.</i> , "Ambient-Pressure silica Aerogel Films", MAT. RES. SOC. SYMP. PROC. Vol. 371 (1995) pp. 205-210, Materials Research Society.						
ECC	EG	Smith <i>et al.</i> , "Preparation of Low-Density Xerogels at Ambient Pressure for Low K Dielectrics", MAT. RES. SOC. SYMP. PROC. Vol. 371 (1995) pp. 261-272, Materials Research Society.						
ECC	EH	U.S. Patent Application Serial No. 08/746,688 filed 11/14/96						
ECC	EI	U.S. Patent Application Serial No. 08/748,927 filed 11/14/96						
ECC	EJ	U.S. Patent Application Serial No. 09/178,715 filed 10/26/98						
ECC	EK	U.S. Patent Application Serial No. 09/324,370 filed 06/02/99 , U.S. 6,380,105						
ECC	EL	U.S. Patent Application Serial No. 09/488,185 filed 01/20/00 , U.S. 6,319,852						
ECC	EM	U.S. Patent Application Serial No. 09/549,289 filed 04/14/00 , U.S. 6,437,007						
ECC	EN	U.S. Patent Application Serial No. 09/573,564 filed 05/19/00						
	EO							
	EP							
	EQ							
	ER							
	ES							
	ET							
	EU							
	EV							
EXAMINER ERMA CAMERON				DATE CONSIDERED 4/14/04				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								